

## COMPOSITE SOURCE FOLLOWER

### ABSTRACT OF THE DISCLOSURE

5 A folded cascode device senses the drain current of a source follower, and a current mirror device multiplies the sensed drain current for application to an output load. The source follower and the current mirror device are preferably of the same type (e.g., both NMOS). The resulting composite source follower provides relatively wide bandwidth at relatively low power. The folded cascode allows (NMOS) source and sink control. Using current mirror feedback reduces the stability problems associated with other solutions that rely on a voltage feedback stage. Composite source followers of the 10 present invention can be used in any traditional buffer applications, such as in operational amplifiers, regulators, or high-speed signal paths.